

16 17 18 19 20 21	KEY REGISTRATION MAIN MEMORY ACCESS		REPORT					
10 11 12 13 14 15 WAITING FOR MAIN MEMORY KEY							>>>	<b>&gt;&gt;&gt;</b>
6 7 8 9	MAIN MEMORY KEY DEMANDING PROCESS							
5 Address Transformation Process	:>>>:	: : : : :	: > > >	<b>\\\</b>	\\\:	***	>>>	<b>*</b>
2 3 4	MAIN MEMORY Access	Similar Simila						
	REQUEST	TLB MISS-HIT OR HIT	DATA TRANSMISSION REPORT	COMPLETION REPORT	STARTING DAT	OPENING DAT	MAIN MEMORY KEY DEMAND	MAIN MEMORY KEY

F I G. 1B

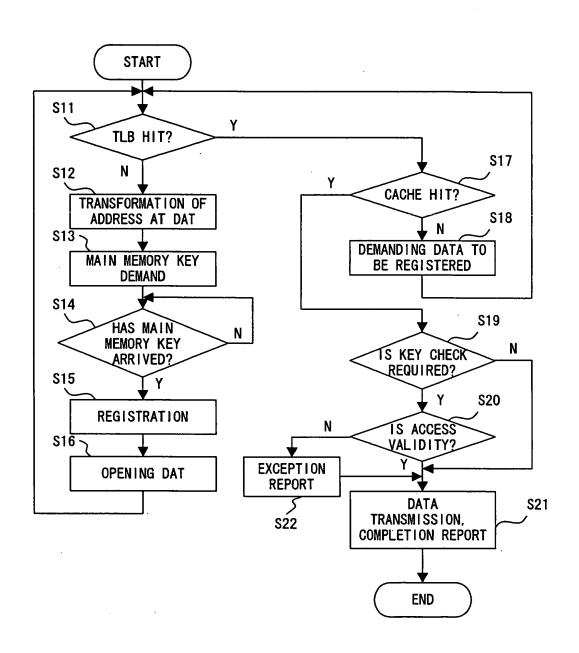


FIG. 1C

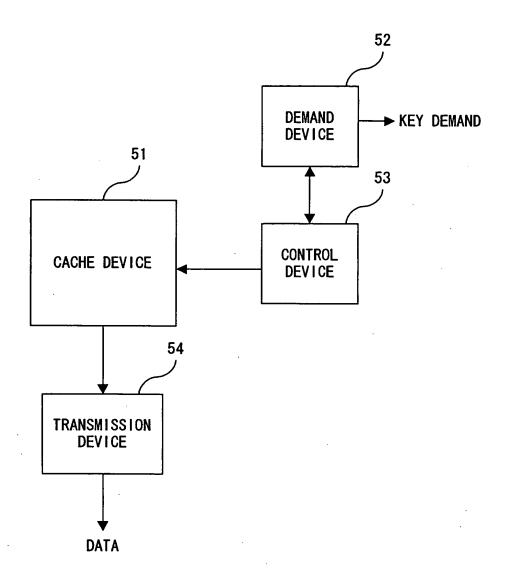
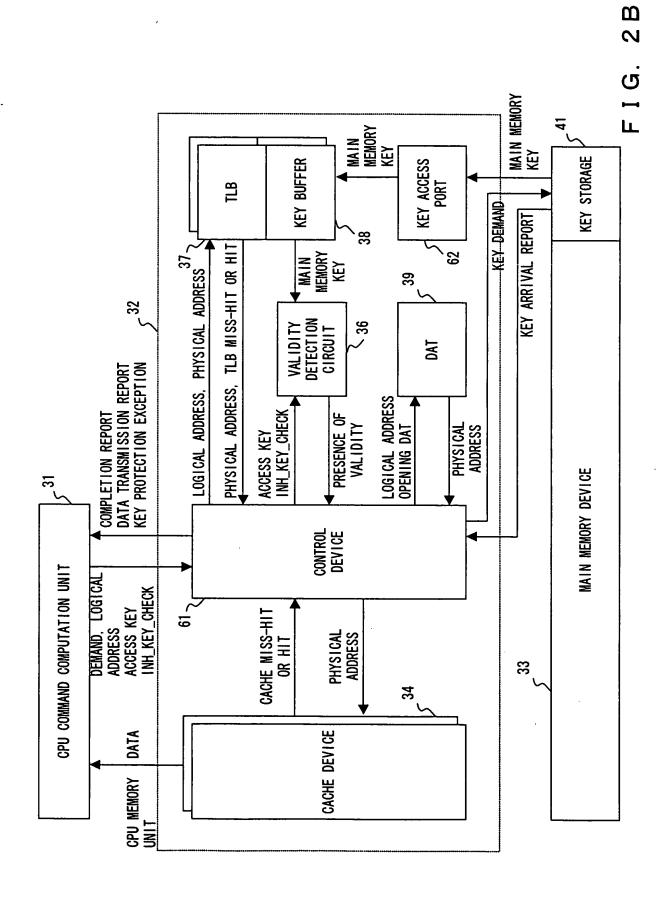


FIG. 2A

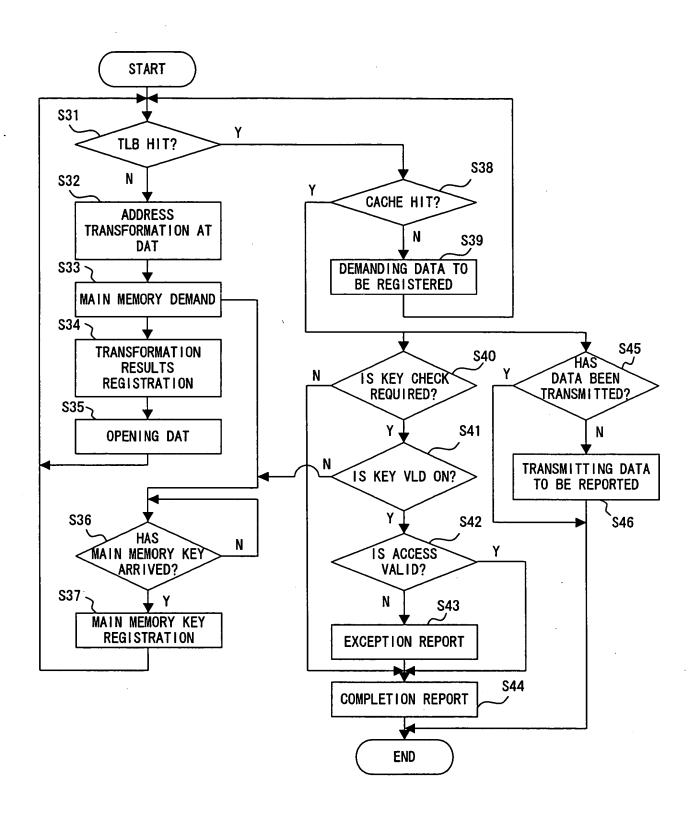


6 17 18 19 20 21	MAIN MEMORY KEY REGISTRATION I MAIN MEMORY ACCESS	######################################						
12 13 14 15 11 WAITING FOR //	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		DATA TRANSMISSION//		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	>>>		
6 7 8 9 10 11 12 13 MAIN MEI	MAIN MEMORY KEY DEMANDING MAIN MEMORY PROCESS I ACCESS	hit key						
ADDRESS TRANSFORMATION PROCESS			>>>>			>>>	: > > >	
2 3	MAIN MEMORY ACCESS	miss 				·		
<b></b>	REQUEST	TLB MISS-HIT OR HIT	DATA TRANSMISSION REPORT	COMPLETION REPORT	STARTING DAT	OPENING DAT	MAIN MEMORY KEY DEMAND	MAIN MEMORY KEY

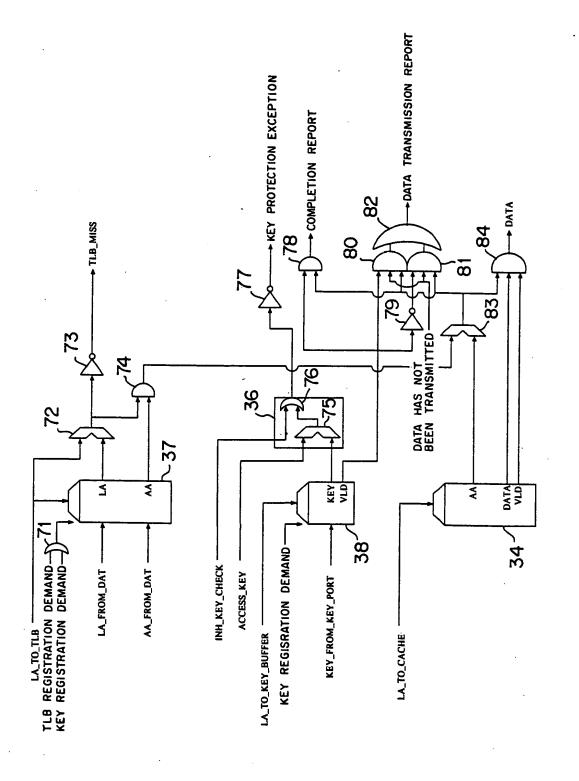
F I G. 3

16 17 18 19 20 21						
10 11 12 13 14 15  WAITING FOR  MAIN MEMORY KEY  TLB  REGISTRAION  MAIN MEMORY	Access //	DATA TRANSMISSION/	COMPLETION			
ADDRESS TRANSFORMATION PROCESS // // // // // // // // // // // // /	DEMANDING					
1 2 3 4  TRAN  MAIN MEMORY					 	
REQUEST	TLB MISS-HIT	DATA TRANSMISSION REPORT	COMPLETION REPORT	STARTING DAT	OPENING DAI MAIN MEMORY KEY DEMAND	MAIN MEMORY KEY

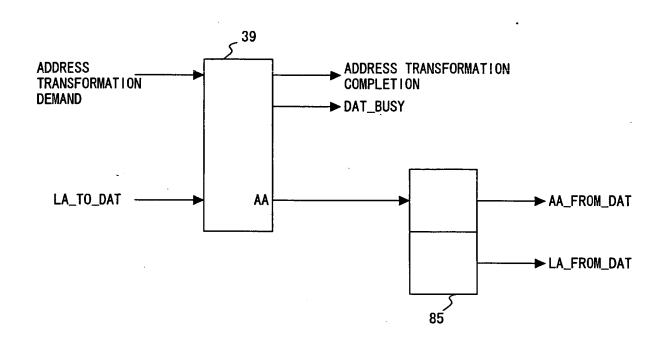
F I G. 4



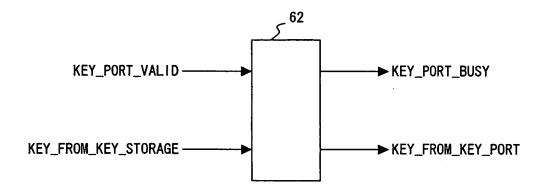
F I G. 5



F1G. 6



F I G. 7



F I G. 8

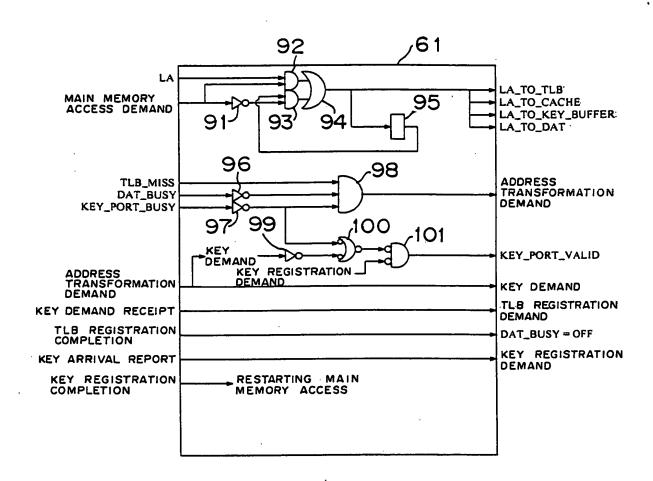


FIG. 9

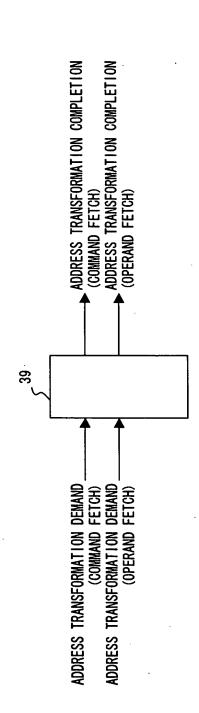


FIG. 10

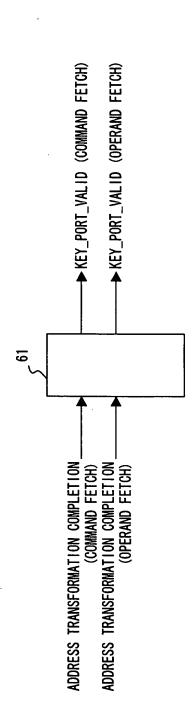
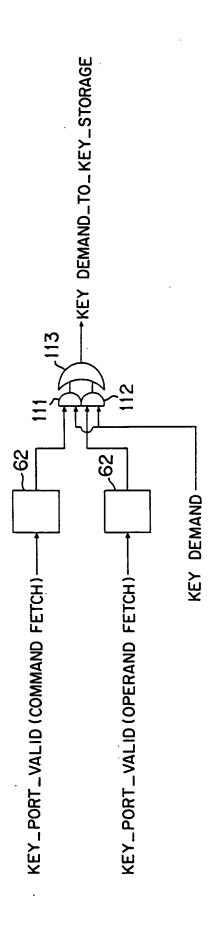


FIG. 11



F16. 12

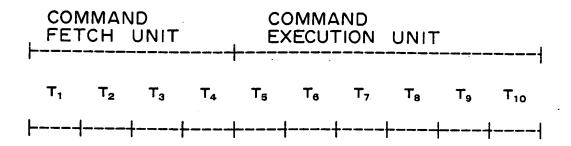


FIG. 13

COMMAND FETCH	COMMAND EXECUTION	COMMAND FETCH	COMMAND EXECUTION
L		L	
COMMA	ND 11	COMMANI	D 12

FIG. 14

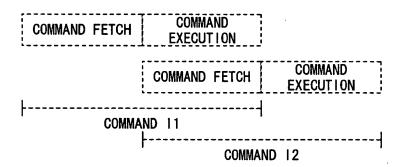
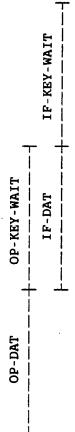


FIG. 15

## CONVENTIONAL



## PRESENT INVENTION



F16 16

## CONVENTIONAL



## PRESENT INVENTION



F1G. 17